```
Trying 9351006...Open

Welcome to STN International!  Enter x:x
LOGINID:sssptau122rxg
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *  Welcome to STN International  * * * * * * * * * *

 NEWS  1  Feb  2  Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2  Jul  8  Important Derwent Announcement about CPI Changes to
                  CPI Subscriber Indexing in 1999 - REVISED
 NEWS  3  Aug  2  New INPADOC File Now Available on STN
 NEWS  4  Aug  9  Expanded CAplus Coverage of US, Japanese and WIPO
                  Patents
 NEWS  5  Aug 23  Left Truncation Added to Several STN Files
 NEWS  6  Aug 30  The International Patent Classification in English
                  and German available on STN
 NEWS  7  Aug 30  IFIRXA File has changed to IFICLS
 NEWS  8  Aug 30  IMSworld Pharmaceutical Company Profiles
                  (IMSPROFILES) from IMS HEALTH now on STN

 NEWS EXPRESS  STN Express 5.0 Now Available
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN Customer
  agreement.  Please note that this agreement limits use to scientific
  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:54:23 ON 31 AUG 1999

=> file reg

COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.15       0.15

FILE 'REGISTRY' ENTERED AT 14:54:39 ON 31 AUG 1999
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 1999 American Chemical Society (ACS)

STRUCTURE FILE UPDATES:   31 AUG  99  HIGHEST RN 236127-00-7
```

26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1967 - 31 Aug 1999 VOL 131 ISS 10
FILE LAST UPDATED: 31 Aug 1999 (19990831/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

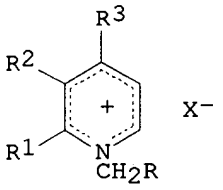
This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> s l1

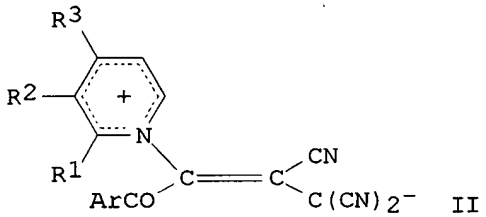
L2 10 L1

=> d 1-10 iall

L2 ANSWER 1 OF 10 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1991:655361 CAPLUS
DOCUMENT NUMBER: 115:255361
TITLE: Regioselectivity of reactions of azinium salts and ylides with tetracyanoethylene
AUTHOR(S): Shestopalov, A. M.; Aitov, I. A.; Sharanin, Yu. A.; Litvinov, V. P.
CORPORATE SOURCE: Inst. Org. Khim. im. Zelinskogo, Moscow, USSR
SOURCE: Izv. Akad. Nauk SSSR, Ser. Khim. (1991), (6), 1431-9
CODEN: IASKA6; ISSN: 0002-3353
DOCUMENT TYPE: Journal
LANGUAGE: Russian
CLASSIFICATION: 22-4 (Physical Organic Chemistry)
OTHER SOURCE(S): CASREACT 115:255361
GRAPHIC IMAGE:



I



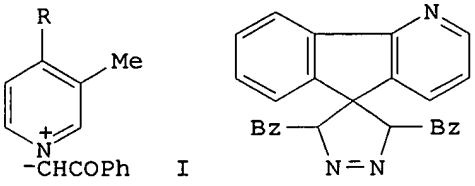
II

ABSTRACT:
Reaction of azinium salts I [R = e.g., H, COPh, CONH2; R1, R2 = e.g., H, Me; (R1R2) = (CH:CH)2; R3 = H, Me; X = halide, ClO4-] with TCNE in aq. MeOH at 20.degree. proceeded by hydrolysis/anion exchange, with formation of I [X = -OC(CN):C(CN)2]. Azinium ylides generated in the reaction of I (R = COAr, Ar =
substituted Ph; R1-R3 = e.g., H, Me) with NEt3 in MeOH reacted with TCNE via a stereoselective addn.-elimination reaction, forming Z 1,4-ylides II. The mechanism of reaction was discussed.

SUPPL. TERM: TCNE stereoselective addn elimination azinium salt; ylide aroylpyridiniotricyanopropenide
INDEX TERM: Hydrolysis
(anion exchange and, in reaction of azinium salts with TCNE in aq. methanol)

INDEX TERM: Ylides
ROLE: PRP (Properties)
(aroylpyridiniotricyanopropenides, stereoselective formation of, in reaction of azinium ylides with TCNE)
INDEX TERM: Addition reaction
(stereoselective, elimination and, in reaction of azinium
ylides with TCNE)
INDEX TERM: 930-73-4 3947-76-0 10129-51-8 41220-29-5 52805-99-9
63008-23-1 78572-44-8 133828-84-9 136714-37-9
136714-38-0
ROLE: PRP (Properties)
(anion exchange/hydrolysis reaction of, with TCNE)
INDEX TERM: **16844-10-3** 16883-69-5 32896-98-3
ROLE: PRP (Properties)
(anion exchange/hydrolysis reaction of, with TCNE, and stereoselective addn./elimination reaction of ylide derived from, with TCNE)
INDEX TERM: 670-54-2, TCNE, reactions
ROLE: RCT (Reactant)
(hydrolysis/anion exchange reaction of, with azinium salts, and stereoselective addn./elimination reaction of,
with ylides derived from azinium salts)
INDEX TERM: 134720-91-5P 134720-92-6P 134720-95-9P 136714-39-1P
136714-40-4P 136714-41-5P 136714-43-7P 136714-44-8P
136714-46-0P 136714-48-2P 136714-50-6P 136714-51-7P
136714-53-9P 136714-54-0P 136714-57-3P 136714-58-4P
136714-59-5P 136714-60-8P 136714-61-9P 136714-62-0P
136714-63-1P 136714-64-2P 136714-65-3P 136714-66-4P
136974-27-1P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
INDEX TERM: 7250-28-4 17282-37-0 25357-43-1 26031-66-3
82746-41-6 82746-43-8 136106-08-6 136714-55-1
136714-56-2
ROLE: PRP (Properties)
(stereoselective addn./elimination reaction of ylide derived from, with TCNE)

L2 ANSWER 2 OF 10 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1990:478234 CAPLUS
DOCUMENT NUMBER: 113:78234
TITLE: New method of 1-pyrazoline ring formation
AUTHOR(S): Prostakov, N. S.; Varlamov, A. V.; Annan, Hussein; Fomichev, A. A.; Aliev, A. E.
CORPORATE SOURCE: Univ. Druzhby Nar. im. P. Lumumby, Moscow, 117923, USSR
SOURCE: Khim. Geterotsikl. Soedin. (1989), (12), 1697
CODEN: KGSSAQ; ISSN: 0453-8234
DOCUMENT TYPE: Journal
LANGUAGE: Russian
CLASSIFICATION: 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))
OTHER SOURCE(S): CASREACT 113:78234
GRAPHIC IMAGE:



ABSTRACT:
Treating ylides I (R = Ph3Si, H), generated from the corresponding N-phenacylpyridinium bromides by aq. K2CO3 in CHCl3 at 20.degree., with 9-diazo-4-azafluorene in CHCl3 for 5 h at 20.degree. gave 35 and 32% spiropyrazoline deriv. II.

SUPPL. TERM: phenacylpyridinium ylide diazotization cyclization; spirocarbazolepyrazole; pyrazole spirocarbazole

INDEX TERM: Ring closure and formation
(of phenacylpyridine ylides with diazoazafluorene, spiro[azafluorene-pyrazoline] derivs. from)

INDEX TERM: Ylides
ROLE: RCT (Reactant)
(of phenacylpyridines, cyclization by diazoazafluorene)

INDEX TERM: Spiro compounds
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of spiro[azafluorene-pyrazoline] deriv.)

INDEX TERM: 50555-86-7
ROLE: RCT (Reactant)
(cyclization by, of phenacylpyridine ylides, spiro[azafluorene-pyrazoline] derivs. from)

INDEX TERM: 56241-32-8 67433-80-1
ROLE: RCT (Reactant)
(cyclization of, by diazoazafluorene, spiro[azafluorene-pyrazoline] deriv. from)

INDEX TERM: **16844-10-3** 67433-79-8
ROLE: RCT (Reactant)
(generation of ylide from)

INDEX TERM: 128381-32-8P 128443-23-2P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

L2 ANSWER 3 OF 10 CAPLUS COPYRIGHT 1999 ACS

ACCESSION NUMBER: 1986:590862 CAPLUS
DOCUMENT NUMBER: 105:190862
TITLE: Stereochemical study on 1,3-dipolar cycloaddition reactions of heteroaromatic N-ylides with symmetrically substituted cis and trans olefins
AUTHOR(S): Tsuge, Otohiko; Kanemasa, Shuji; Takenaka, Shigeori
CORPORATE SOURCE: Interdiscip. Grad. Sch. Eng. Sci., Kyushu Univ., Kasuga, 816, Japan
SOURCE: Bull. Chem. Soc. Jpn. (1985), 58(11), 3137-57
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
CLASSIFICATION: 27-16 (Heterocyclic Compounds (One Hetero Atom))
OTHER SOURCE(S): CASREACT 105:190862

ABSTRACT:
Stereochem. of the cycloaddns. of twenty-four heteroarom. N-ylides with sym. substituted cis and trans olefins has been investigated. Cyclic and acyclic cis olefins cycloadd to the anti form of the ylides in a highly endo-selective manner giving almost quant. yields of stereospecific endo 3+2 cycloadducts. N-Ylides stabilized with a substituent of the carbonyl type react with trans

olefins to form mostly 2 stereoisomeric 3+2 cycloadducts to the anti form of the ylides. In most cases, they undergo stereospecific interconversion through
a retro cycloaddn. process, the isomer ratios and the ease of transformation depending upon the nature and size of substituents on the 5-membered ring which
has been built up in the cycloaddn. step. On the other hand, N-ylides stabilized with a substituent of noncarbonyl type react with trans olefins to give stereospecific and stereoselective 3+2 cycloadducts as single isomers which are assigned as the cycloadducts to the syn form of the ylides.

SUPPL. TERM: ylide heteroarom olefin cycloaddn stereochem

INDEX TERM: Cycloalkenes
Alkenes, reactions
ROLE: RCT (Reactant)
(cycloaddn. of, with heteroarom. N-ylides, stereochem. of)

INDEX TERM: Ylides
ROLE: RCT (Reactant)
(heteroarom. N-, cycloaddn. of, with olefins, stereochem.
of)

INDEX TERM: Stereochemistry
(of cycloaddn. of heteroarom. N-ylides with olefins)

INDEX TERM: Cycloaddition reaction
(of heteroarom. N-ylides with olefins, stereochem. of)

INDEX TERM: 762-42-5
ROLE: PROC (Process)
(addn. of, with diazatricyclododecadienes)

INDEX TERM: 624-48-6 624-49-7 764-42-1 928-53-0 930-88-1
941-69-5 959-27-3 959-28-4 1081-17-0 1631-28-3
2973-17-3 7633-38-7 18305-60-7
ROLE: PROC (Process)
(cycloaddn. of, with heteroarom. N-ylides, stereochem. of)

INDEX TERM: 108-31-6, reactions
ROLE: RCT (Reactant)
(cycloaddn. of, with heteroarom. N-ylides, stereochem. of)

INDEX TERM: 289-80-5 946-07-6 4329-73-1 5304-34-7 7250-28-4
7467-00-7 16726-82-2 **16844-10-3** 16883-69-5
17282-40-5 17282-41-6 17282-43-8 18667-21-5
25131-60-6 25357-39-5 25357-50-0 25357-51-1
26489-32-7 32896-98-3 33014-32-3 39595-94-3
40448-79-1 40448-80-4 51386-37-9 55814-00-1
55841-58-2 56241-32-8 56567-29-4 57699-26-0
58329-45-6 59456-80-3 59986-29-7 64636-81-3
72797-44-5 72797-45-6 78113-64-1 80636-51-7
82735-58-8 87773-11-3 88089-35-4 88089-43-4
88089-46-7 90625-75-5 92171-46-5 104932-95-8
104932-96-9 104932-97-0 104953-23-3 104953-24-4
ROLE: PROC (Process)
(cycloaddn. of, with olefins, stereochem. of)

INDEX TERM: 104953-21-1P
ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and oxidn. of)

INDEX TERM: 37129-40-1P 78113-52-7P 78113-53-8P 78113-54-9P
78184-05-1P 78184-06-2P 78184-07-3P 88089-36-5P
88089-37-6P 88089-38-7P 88089-39-8P 88089-40-1P
88089-41-2P 88089-44-5P 88089-45-6P 88121-62-4P
88121-63-5P 90625-67-5P 90625-68-6P 90625-69-7P
90625-70-0P 90625-71-1P 90625-72-2P 90625-73-3P

90625-74-4P 90650-46-7P 90650-47-8P 97204-08-5P
97204-09-6P 97204-10-9P 97204-11-0P 97204-12-1P
97204-13-2P 97204-14-3P 97204-15-4P 97226-60-3P
97275-41-7P 97275-42-8P 97275-43-9P 97275-44-0P
104932-92-5P 104932-93-6P 104932-94-7P 104932-99-2P
104933-00-8P 104933-01-9P 104953-14-2P 104953-15-3P
104953-16-4P 104953-17-5P 104953-18-6P 104953-19-7P
104953-20-0P 104953-22-2P 104953-25-5P 104953-26-6P
104953-27-7P 104953-28-8P 104953-29-9P 104953-30-2P
105016-33-9P 105017-09-2P 105017-10-5P 105017-11-6P
105017-12-7P 105017-13-8P 105017-14-9P 105017-15-0P
105017-16-1P 105017-17-2P 105017-18-3P 105017-19-4P
105017-20-7P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

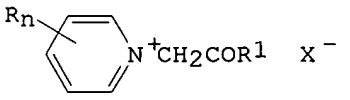
INDEX TERM: 100-48-1 110-86-1, reactions 119-65-3 288-47-1
591-22-0 3796-23-4
ROLE: RCT (Reactant)
(quaternization of)

INDEX TERM: 70-11-1 590-17-0 2114-00-3 15109-94-1
ROLE: RCT (Reactant)
(reaction of, with pyridine)

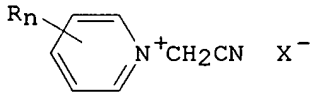
L2 ANSWER 4 OF 10 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1981:165607 CAPLUS
DOCUMENT NUMBER: 94:165607
TITLE: Pyridinium compound fogging agents for photographic material
INVENTOR(S): Oishi, Yasushi; Hirano, Shigeo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Ger. Offen., 70 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
INT. PATENT CLASSIF.: G03C005-30
CLASSIFICATION: 74-2 (Radiation Chemistry, Photochemistry, and Photographic Processes)
Section cross-reference(s): 27
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3014628	A1	19801030	DE 1980-3014628	19800416
DE 3014628	C2	19910502		
JP 55138742	A2	19801029	JP 1979-46949	19790417
JP 62004699	B4	19870131		
US 4324855	A	19820413	US 1980-140923	19800416

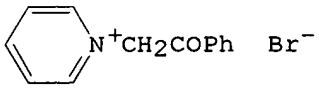
PRIORITY APPLN. INFO.: JP 1979-46949 19790417
GRAPHIC IMAGE:



I



II



III

ABSTRACT:
Reversal images with a higher Dmax and a lower Dmin can be produced by incorporation of nucleating agents (fogging agents) of the formulas I or II (R = trihalomethyl, CN, carbamoyl, a carboxyl ester, carboxamido, sulfonamido, acyl, sulfonyl, sulfamoyl, acylamino, aryl, alkyl, or heterocycle; R1 = a mono-, di-, or tricyclic aryl group, a heterocycle, or a straight chain, branched chain, or cyclic alkyl; X- = anion; n = 0-3) into an internal latent image-forming emulsion layer contg. a dye-forming compd. and subsequently processing with an alk. soln. after imagewise exposure. Thus, a transparent cellulose acetate film support was coated with a layer contg. a magenta dye-releasing redox compd., a layer of a spectrally sensitized internal latent image-forming gelatin-AgBr emulsion contg. III 1.4 mmol/mol Ag, and a protective gelatin layer. This unit was then exposed, combined with a receptor
element contg. a mordant, and processed with an alk. processing soln. to give a
magenta pos. image with a Dmin of 0.03 and a Dmax of 1.25.

SUPPL. TERM: cyanoethylpyridinium fogging agent photog; aroylmethylpyridinium fogging agent photog; alkanoylmethylpyridinium fogging agent photog; pyridinium deriv fogging agent photog; nucleating agent pyridinium deriv photog; fogging agent pyridinium deriv photog

INDEX TERM: 5469-10-3 6277-72-1 6299-99-6 **16844-10-3**
16844-14-7 16883-69-5 17281-59-3 17282-37-0
17282-38-1 25357-39-5 25357-44-2 25357-46-4
25407-31-2 26031-47-0 26031-59-4 26031-66-3
26535-84-2 42508-60-1 49854-35-5 63374-35-6
64881-07-8 69656-16-2 77281-09-5 77281-10-8
77281-11-9 77281-12-0 77281-13-1 77281-14-2
77281-15-3 77281-16-4 77281-17-5 77281-18-6
77281-19-7 77281-20-0 77281-21-1 77281-22-2
77281-23-3 77281-24-4 77281-25-5 77281-26-6
77281-27-7 77281-28-8 77281-29-9 77281-30-2
77281-31-3 77281-32-4 77281-33-5 77281-34-6
77281-35-7
ROLE: USES (Uses)
(photog. fogging agent, for reversal image prodn.)

INDEX TERM: 29536-25-2P
ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction of, with phenacyl bromide)

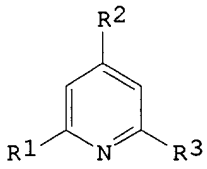
INDEX TERM: 20260-53-1
ROLE: RCT (Reactant)
(reaction of, with cetylamine)

INDEX TERM: 143-27-1
ROLE: RCT (Reactant)
(reaction of, with nicotinoyl chloride hydrochloride)

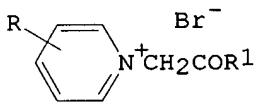
INDEX TERM: 70-11-1
ROLE: RCT (Reactant)
(reaction of, with N-hexadecylnicotinamide)

L2 ANSWER 5 OF 10 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1981:65440 CAPLUS
DOCUMENT NUMBER: 94:65440
TITLE: Studies on cycloimmonium ylides. Synthesis of some 2,4,6-triaryl-substituted pyridines via picolinium ylides
AUTHOR(S): Tewari, Ram. S.; Dubey, Ajay K.; Misra, Naresh K.; Dixit, Priya D.
CORPORATE SOURCE: Dep. Chem., H. B. Technol. Inst., Kanpur, 208002, India

SOURCE: J. Chem. Eng. Data (1981), 26(1), 106-8
CODEN: JCEAAX; ISSN: 0021-9568
DOCUMENT TYPE: Journal
LANGUAGE: English
CLASSIFICATION: 27-17 (Heterocyclic Compounds (One Hetero Atom))
GRAPHIC IMAGE:



I

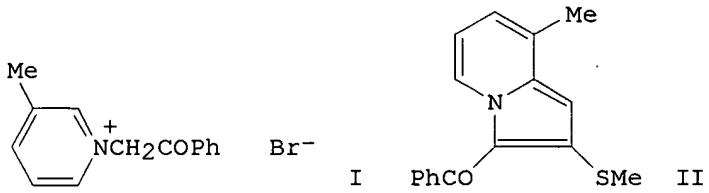


II

ABSTRACT:
2,4,6-Triaryl-substituted pyridines I were prepd. by reaction of aroylmethylenepicolinium ylides II (R = 3-Me, 4-Me; R1 = Ph, 4-ClC6H4, p-tolyl)
with R2CH:CHCOR3 (R2, R3 = optionally substituted Ph).

SUPPL. TERM: pyridine triphenyl; cyclocondensation picolinium ylide chalcone
INDEX TERM: Cyclocondensation reaction
(of picolinium ylides with chalcones, substituted pyridines from)
INDEX TERM: 94-41-7 959-23-9 1230-77-9 2373-89-9 2453-44-3
5416-71-7 6552-63-2 6552-66-5 6552-68-7 19133-00-7
19672-59-4 21551-47-3 42580-60-9 69538-64-3
72666-54-7 73911-01-0 75573-20-5 75573-21-6
ROLE: RCT (Reactant)
(cyclocondensation of, with picolinium ylides, substituted pyridine from)
INDEX TERM: **16844-10-3** 25357-43-1 76337-69-4
ROLE: RCT (Reactant)
(cyclocondensation of, with substituted chalcones, substituted pyridine from)
INDEX TERM: 580-35-8P 3557-65-1P 16112-42-8P 72666-41-2P
72666-42-3P 72666-45-6P 72666-47-8P 72666-48-9P
72666-49-0P 72666-50-3P 72673-14-4P 73910-87-9P
73910-89-1P 75573-10-3P 75573-11-4P 75573-12-5P
75573-13-6P 75573-14-7P 75573-15-8P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

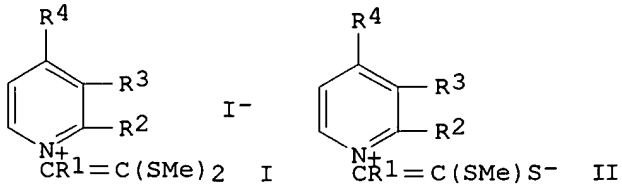
L2 ANSWER 6 OF 10 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1978:22552 CAPLUS
DOCUMENT NUMBER: 88:22552
TITLE: Reaction of pyridinium N-ylides with ketene thioacetal
derivatives
AUTHOR(S): Tominaga, Yoshinori; Miyake, Yoshinori; Fujito, Hiroshi; Kurata, Keiji; Awaya, Hiroyoshi; Matsuda, Yoshiro; Kobayashi, Goro
CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, Japan
SOURCE: Chem. Pharm. Bull. (1977), 25(7), 1528-33
CODEN: CPBTAL
DOCUMENT TYPE: Journal
LANGUAGE: English
CLASSIFICATION: 27-17 (Heterocyclic Compounds (One Hetero Atom))
GRAPHIC IMAGE:



ABSTRACT:
Reaction of the pyridinium N-ylides with ketenethioacetal in the presence of Et3N or K2CO3 as a base in EtOH or DMF gave the pyridinium N-allylides which readily cyclized to give the indolizine derivs. Thus, the pyridinium ylide I and (MeS)2C:CHNO2 gave the indolizine II.

SUPPL. TERM: pyridinium ylide reaction ketenethioacetal; indolizine
INDEX TERM: Cyclocondensation reaction
(of methylpyridinium ylides with ketene thioacetal derivs., indolizine derivs. from)
INDEX TERM: Ylides
ROLE: RCT (Reactant)
(pyridinium, reaction of, with ketene thioacetal derivs.)
INDEX TERM: 57845-14-4P 57845-15-5P 59182-01-3P 64908-40-3P
64908-43-6P 64995-24-0P 64995-25-1P 64995-26-2P
64995-27-3P 64995-28-4P 64995-29-5P 64995-30-8P
64995-31-9P 64995-32-0P 64995-33-1P 64995-34-2P
64995-35-3P 64995-36-4P 64995-37-5P 64995-38-6P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
INDEX TERM: 7250-28-4 **16844-10-3** 16883-69-5 17282-40-5
41220-29-5 56567-29-4 64636-79-9 64636-80-2
64995-39-7 64995-40-0 64995-41-1 64995-42-2
64995-43-3
ROLE: RCT (Reactant)
(reaction of, with ketenethioacetals)
INDEX TERM: 3490-92-4 5147-80-8 13623-94-4 17823-58-4
18374-66-8
ROLE: RCT (Reactant)
(reaction of, with pyridinium ylides)

L2 ANSWER 7 OF 10 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1977:601268 CAPLUS
DOCUMENT NUMBER: 87:201268
TITLE: Heterocyclic ketene thioacetal derivatives. VIII. Synthesis of ketene thioacetals having a pyridinium salt
AUTHOR(S): Tominaga, Yoshinori; Miyake, Yoshinori; Fujito, Hiroshi; Matsuda, Yoshiro; Kobayashi, Goro
CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, Japan
SOURCE: Yakugaku Zasshi (1977), 97(8), 927-32
CODEN: YKKZAJ
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
CLASSIFICATION: 27-17 (Heterocyclic Compounds (One Hetero Atom))
GRAPHIC IMAGE:



ABSTRACT:
Ketenethioacetal derivs. I (R1 = Bz, CO2Et, CONH2, CN; R2, R3, R4 = H, Me) were
prepd. by alkylation with MeI of II, which were prepd. by the reaction of pyridinium ylides with CS2 in the presence o NaOH.

SUPPL. TERM: pyridinium ketene thioacetal deriv; ylide pyridinium reaction carbon disulfide
INDEX TERM: Mercaptals and Mercaptoles
ROLE: RCT (Reactant)
(ketene thioacetals with a pyridinium salt)
INDEX TERM: Ylides
ROLE: RCT (Reactant)
(pyridinium, reaction of, with carbon disulfide)
INDEX TERM: 64636-63-1P 64636-64-2P 64636-65-3P 64636-66-4P
64636-67-5P 64636-68-6P 64636-69-7P 64636-70-0P
64636-71-1P 64636-72-2P 64636-73-3P 64636-74-4P
ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction with methyl iodide)
INDEX TERM: 57845-27-9P 59181-92-9P 59181-93-0P 59181-94-1P
59181-95-2P 59181-96-3P 59181-97-4P 59181-98-5P
64636-75-5P 64636-76-6P 64636-82-4P 64636-83-5P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
INDEX TERM: 7250-28-4 **16844-10-3** 17282-40-5 26557-57-3
32896-98-3 42866-67-1 55814-02-3 64636-77-7
64636-78-8 64636-79-9 64636-80-2 64636-81-3
ROLE: RCT (Reactant)
(reaction of, with carbon disulfide and dimethyl sulfate)
INDEX TERM: 75-15-0, reactions
ROLE: RCT (Reactant)
(reaction of, with pyridinium ylides)
INDEX TERM: 74-88-4, reactions 75-18-3
ROLE: RCT (Reactant)
(reaction of, with sulfur contg. pyridinium ylides)

L2 ANSWER 8 OF 10 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1975:514165 CAPLUS
DOCUMENT NUMBER: 83:114165
TITLE: Route to 2,6-dihydroxypiperidines
AUTHOR(S): Wild, Peter; Kroehnke, Fritz
CORPORATE SOURCE: Inst. Org. Chem., Univ. Giessen, Giessen, Ger.
SOURCE: Justus Liebigs Ann. Chem. (1975), (5), 849-63
CODEN: JLACBF
DOCUMENT TYPE: Journal
LANGUAGE: German
CLASSIFICATION: 27-17 (Heterocyclic Compounds (One Hetero Atom))
GRAPHIC IMAGE: For diagram(s), see printed CA Issue.
ABSTRACT:
Acylalkylpyridinium salts I (R = H, 3-Me, 4-Me, 3,5-Me2; R1 = Me, Ph, 4-MeC6H4)

reacted with R2CHO (R2 = H, Ph, 4-MeC6H4) and R3NH2 (R3 = H, Me) in a 2:1:1 molar ratio to give .apprx.60% dipyridinium salts II. II lost 1 mole H2O to give tetrahydro derivs. III and a 2nd mole H2O to give dihydro derivs. IV. IV were dehydrogenated to the corresponding pyridine compds. which were readily ring-cleaved to give pyridinediamines V and glutaconaldehyde deriv. VI. Excess
piperidine causes chain-shortening of VI.

SUPPL. TERM: acylpyridinium reaction aldehyde ammonia; pyridinium acyl reaction aldehyde ammonia; amine reaction acylpyridinium; hydroxypiperidinediyldipyridinium; piperidinediyldipyridinium dihydroxy; glutaconaldehyde Schiff base; dehydration dihydroxypiperidinediyldipyridinium

INDEX TERM: Dehydration, chemical
(acid-catalyzed, of (dihydroxypiperidinediyl)dipyridinium salts)

INDEX TERM: Aldehydes, reactions
ROLE: RCT (Reactant)
(with acylalkylpyridinium salts and ammonia)

INDEX TERM: 56566-74-6P 56566-75-7P 56566-76-8P 56566-77-9P
56566-78-0P 56566-81-5P 56566-82-6P 56566-83-7P
ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and dehydration of)

INDEX TERM: 56566-87-1P 56566-89-3P 56566-91-7P 56566-93-9P
56566-97-3P 56567-05-6P
ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and dehydrogenation of)

INDEX TERM: 56567-15-8P 56567-17-0P 56567-19-2P 56567-21-6P
ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and ring cleavage of)

INDEX TERM: 2473-39-4P 2473-40-7P 56566-80-4P 56566-85-9P
56566-95-1P 56566-99-5P 56567-01-2P 56567-03-4P
56567-07-8P 56567-09-0P 56567-11-4P 56567-13-6P
56567-23-8P 56567-25-0P 56567-26-1P 56567-27-2P
56567-28-3P 56567-30-7P 56567-31-8P 56567-32-9P
56567-34-1P 56567-36-3P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

INDEX TERM: 16883-69-5
ROLE: RCT (Reactant)
(reaction with aldehydes and ammonia or methylamine)

INDEX TERM: 7250-28-4 **16844-10-3** 56567-29-4
ROLE: RCT (Reactant)
(reaction with benzaldehyde and ammonia)

INDEX TERM: 17282-38-1 17282-41-6
ROLE: RCT (Reactant)
(reaction with methylbenzaldehyde and ammonia)

INDEX TERM: 104-87-0
ROLE: RCT (Reactant)
(reaction with phenacyl- or acetonylpyridinium bromides and ammonia)

INDEX TERM: 74-89-5
ROLE: RCT (Reactant)
(reaction with phenacylpyridinium bromide and benzaldehyde)

INDEX TERM: 7664-41-7, reactions
ROLE: RCT (Reactant)
(with phenacyl- or acetonylpyridinium bromides and

aldehydes)
INDEX TERM: 100-52-7, reactions
ROLE: RCT (Reactant)
(with phenacyl- or acetonylpyridinium bromides and ammonia or methylamine)
INDEX TERM: 50-00-0, reactions
ROLE: RCT (Reactant)
(with phenacylpyridinium bromide and ammonia)

L2 ANSWER 9 OF 10 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1974:36969 CAPLUS
DOCUMENT NUMBER: 80:36969
TITLE: Synthesis and thermal reaction of pyridinium 3,3-diacyl-1-benzoylallylides[3,3-diacyl-1-benzoyl-1-(1-pyridinio)prop-2-enides]. Formation of indolizine derivatives
AUTHOR(S): Tamura, Yasumitsu; Sumida, Yoshio; Ikeda, Masazumi
CORPORATE SOURCE: Fac. Pharm. Sci., Osaka Univ., Osaka, Japan
SOURCE: J. Chem. Soc., Perkin Trans. 1 (1973), (19), 2091-5
CODEN: JCPRB4
DOCUMENT TYPE: Journal
LANGUAGE: English
CLASSIFICATION: 27-17 (Heterocyclic Compounds (One Hetero Atom))
GRAPHIC IMAGE: For diagram(s), see printed CA Issue.
ABSTRACT:
Pyridinium phenacylides with 2,2-diacyl-1-ethoxyethylenes gave pyridinium 3,3-diacyl-1-benzoyl-allylides. E.g. pyridinium phenacylide with EtOCH:C(COMe)2 gave 75% allylide (I, R = H). I (R = H) in refluxing Me2C6H4 gave 6% indolizine (II; R = H, R1 = Bz). 2-Methyl derivs. of I in refluxing Me2C6H4 gave mainly 1-acetyl-2-phenylindolizines. E.g. I (R = Me) gave 30% II (R = Ph, R1 = CH:CHCOMe) and 2% II (R = H, R1 = Bz).

SUPPL. TERM: pyridinium allylide; pyridiniopropenide; propenide pyridinio; cyclization pyridinium allylide indolizine
INDEX TERM: Ring closure and formation
(of pyridinium diacylbenzoylallylides, indolizines by)
INDEX TERM: 70-11-1
ROLE: PROC (Process)
(cycloaddn. of, with acetonylpyridine)
INDEX TERM: 7250-28-4 **16844-10-3** 16883-69-5
ROLE: PROC (Process)
(cycloaddn. of, with acetylacetylene)
INDEX TERM: 6302-02-9
ROLE: PROC (Process)
(cycloaddn. of, with phenacyl bromide)
INDEX TERM: 1423-60-5
ROLE: PROC (Process)
(cycloaddn. of, with phenacylpyridinium bromide)
INDEX TERM: 51386-31-3P 51386-32-4P 51386-33-5P 51386-34-6P
51386-35-7P 51386-36-8P 51386-40-4P 51386-41-5P
51386-42-6P 51386-43-7P 51386-44-8P 51386-45-9P
51386-46-0P 51386-47-1P 51386-48-2P 51386-49-3P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
INDEX TERM: 17282-43-8 25357-50-0 51386-37-9 51386-38-0
51386-39-1
ROLE: RCT (Reactant)
(reaction of, with (ethoxymethylene)pentanedione)
INDEX TERM: 87-13-8 94-05-3 33884-41-2
ROLE: RCT (Reactant)
(reaction of, with pyridinium phenacylides)

L2 ANSWER 10 OF 10 CAPLUS COPYRIGHT 1999 ACS

ACCESSION NUMBER: 1967:453263 CAPLUS
DOCUMENT NUMBER: 67:53263
TITLE: Kinetics of the reaction of pyridines with phenacyl bromide in nitrobenzene
AUTHOR(S): Litvinenko, L. M.; Perel'man, L. A.
CORPORATE SOURCE: Donetsk. Gos. Univ., Donetsk, USSR
SOURCE: Zh. Org. Khim. (1967), 3(5), 936-42
CODEN: ZORKAE
DOCUMENT TYPE: Journal
LANGUAGE: Russian
CLASSIFICATION: 22 (Physical Organic Chemistry)
ABSTRACT:
The title reaction was found to proceed irreversibly and nearly quant. with formation of compds. of general formula (RC5H4N+CH2Bz)Br- (I), where RC5H4N is substituted pyridine. The reaction kinetics were followed by potentiometric titrn. of the appearing Br-. Rate consts. (k), activation energies (E), entropy changes (.DELTA.S), and log A (A frequency factor) were calcd. Also Hammett-Taft consts., .sigma.0 and .rho.0, were detd. from the equation log KR-log KH = .rho.0.sigma.0 (R, m.p., .sigma..degree., K at 25.degree., K at 40.degree., K at 55.degree. in l. mole-1 sec.-1 .times. 103, E in cal. mole-1, S in cal. degree-1 mole-1, log A in l. mol.-1 sec.-1 given)0 H, 206.5.degree., 0, 1.93 .+-. 0.04, 4.80 .+-. 0.16, 12.6 .+-. 0.5, 11,900, -33.8, 6.01; 3-Me, 189-90.degree., -0.07, 4.84 .+-. 0.03, 10.2 .+-. 0.2, 22.9 .+-. 0.7, 11,000, -34.5, 5.65; 3-NO2, 201-2.degree., 0.70, 0.00338 .+-. 0.00014, 0.0104 .+-. 0.0001, 0.0289 .+-. 0.0002, 13,900, -39.7, 4.73; 3-Br, 194-5.degree., 0.38, 0.0660 .+-. 0.0011, 0.185 .+-. 0.008, 0.472 .+-. 0.010, 12,800, -37.6, 5.18; 4-Et, 218-19.degree., -0.15, 5.83 .+-. 0.14, 15.2 .+-. 0.7, 32.0 .+-. 0.8, 11,100, -34.3, 5.89; 4-NH2, 299-300.degree., -0.38, 179.0 .+-. 0.6, 378.0 .+-. 17.0, 729.0 .+-. 25.0, 9100, -34.1, 5.95; 3-Bz, 238-40.degree., 0.34, 0.170 .+-. 0.003, -, -, -, -, -; 4-Ph, 203-5.degree., 0, 2.63 .+-. 0.13, 6.55 .+-. 0.10, 14.8 .+-. 0.7, 11,200, -35.5, 5.64.

SUPPL. TERM: HAMMETT TAFT KINETICS; PHENACYL BROMIDE PYRIDINES KINETICS; PYRIDINES KINETICS PHENACYL BROMIDE
INDEX TERM: Activation energy
Frequency factor
(of 2-bromoacetophenone reaction with pyridines)
INDEX TERM: Kinetics, reaction
(of 2-bromoacetophenones with pyridines)
INDEX TERM: Entropy
(of activation, of 2-bromoacetophenone reaction with pyridines)
INDEX TERM: 6299-99-6P **16844-10-3P** 16844-11-4P 16844-13-6P 16844-14-7P 16844-15-8P 16883-69-5P 16883-70-8P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
INDEX TERM: 108-99-6 504-24-5 536-75-4 626-55-1 939-23-1 2530-26-9 5424-19-1
ROLE: PRP (Properties)
(reaction with 2-bromoacetophenone, kinetics of)
INDEX TERM: 70-11-1
ROLE: PRP (Properties)
(reaction with pyridines, kinetics of)
INDEX TERM: 110-86-1, reactions
ROLE: RCT (Reactant)
(with 2-bromoacetophenone, kinetics of)

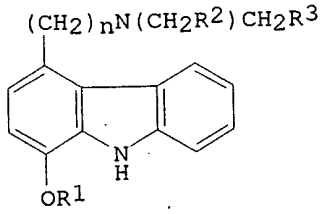
preparation); PREP (Preparation)
(process for the prepn. of benzothiazolones)
IT 108773-04-2P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(process for the prepn. of benzothiazolones)
IT 55-81-2 532-55-8, Benzoylisothiocyanate
RL: RCT (Reactant)
(process for the prepn. of benzothiazolones)

L17 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 1999 ACS
AN 1993:495333 HCAPLUS
DN 119:95333
TI Preparation of carbazoles as dopaminergic receptor antagonists
IN Hibino, Satoshi; Okuyama, Shigeru; Nakazato, Atsuo; Kawashima, Yutaka
PA Taisho Pharma Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C07D209-88
ICS A61K031-40
CC 27-11 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 1

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05058998	A2	19930309	JP 1991-226856	19910906

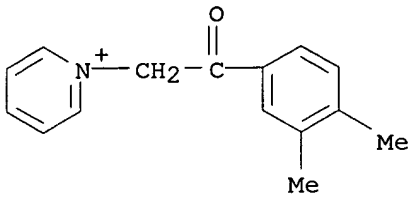
PI JP 05058998
OS MARPAT 119:95333
GI



I

AB Carbazoles I (R1 = H, C1-5 alkyl; R2, R3 = C1-5 alkyl; n = 1-3) and their salts, useful for treatment of aggressive behaviors, excitement, etc., in cerebrovascular disorders and senile dementia, are prepd. Treatment of 0.79 g 1-methoxy-4-(N-propyl-N-propionyl)aminoethylcarbazole (prepn. given) with LiAlH4 in THF at room temp. for 14 h gave 0.71 g I (R1 = Me, R2 = R3 = Et, n = 2) (II), which was converted into HCl salt in 75.4% yield. II inhibited specific binding of (-)-[3H]-sulpiride to adrenergic D2 receptor with IC50 of 648 nM, vs. 86,000 nM, for rimcazole.

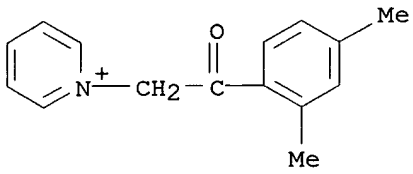
ST adrenergic receptor antagonist carbazole prepn; cerebrovascular disorder dementia treatment carbazole
IT Adrenergic antagonists
(carbazoles, for treatment of cerebrovascular disorders and senile dementia)
IT Mental disorder
(treatment of, carbazoles for)



● Br^-

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L6 ANSWER 2 OF 4 REGISTRY COPYRIGHT 1999 ACS
RN 59224-30-5 REGISTRY
CN **Pyridinium, 1-[2-(2,4-dimethylphenyl)-2-oxoethyl]-, bromide (9CI)**
(CA INDEX NAME)
MF **C15 H16 N O . Br**
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXLIT
(*File contains numerically searchable property data)

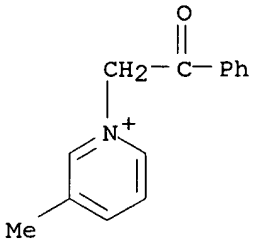


● Br^-

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L6 ANSWER 3 OF 4 REGISTRY COPYRIGHT 1999 ACS
RN 56567-29-4 REGISTRY
CN **Pyridinium, 3,5-dimethyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI)**
(CA INDEX NAME)
OTHER NAMES:
CN **3,5-Dimethyl-1-phenacylpyridinium bromide**
MF **C15 H16 N O . Br**
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)
CRN (110854-02-9)

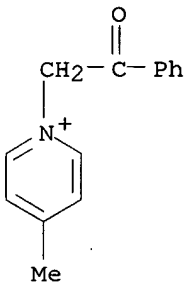
CN 1-Phenacyl-3-picolinium bromide
CN **3-Methyl-1-phenacylpyridinium bromide**
MF **C14 H14 N O . Br**
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)
CRN (59036-97-4)



● Br^-

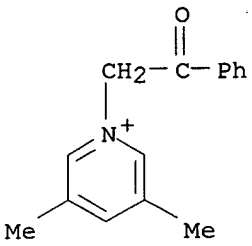
10 REFERENCES IN FILE CA (1967 TO DATE)
10 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 4 OF 5 REGISTRY COPYRIGHT 1999 ACS
RN 7250-28-4 REGISTRY
CN **Pyridinium, 4-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI)**
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Phenacyl-4-picolinium bromide (6CI)
CN 4-Picolinium, 1-phenacyl-, bromide (8CI)
OTHER NAMES:
CN **1-Phenacyl-4-methylpyridinium bromide**
CN **4-Methyl-1-phenacylpyridinium bromide**
MF **C14 H14 N O . Br**
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, TOXLIT, USPATFULL
(*File contains numerically searchable property data)
CRN (46720-78-9)



● Br^-

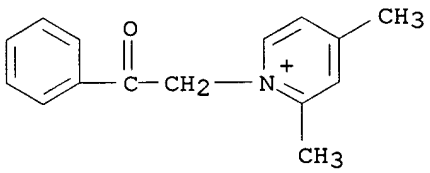
22 REFERENCES IN FILE CA (1967 TO DATE)
22 REFERENCES IN FILE CAPLUS (1967 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)



● Br^-

6 REFERENCES IN FILE CA (1967 TO DATE)
6 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L6 ANSWER 4 OF 4 REGISTRY COPYRIGHT 1999 ACS
RN 26557-57-3 REGISTRY
CN **Pyridinium, 2,4-dimethyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI)**
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN **Pyridinium, 2,4-dimethyl-1-phenacyl-, bromide (8CI)**
MF **C15 H16 N O . Br**
LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMINFORMRX
(*File contains numerically searchable property data)



● Br^-

3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s 56567-29-4/rn

L7 1 56567-29-4/RN

=> s 16844-10-3/rn

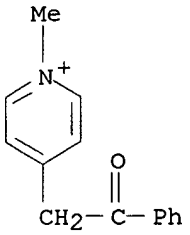
L8 1 16844-10-3/RN

=> file caplu

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	44.40	44.55

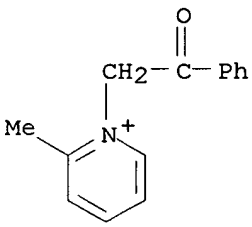
FILE 'CAPLUS' ENTERED AT 10:10:43 ON 26 AUG 1999

LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)
CRN (188903-44-8)



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 2 OF 5 REGISTRY COPYRIGHT 1999 ACS
RN 32896-98-3 REGISTRY
CN **Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI)**
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Picolinium, 1-phenacyl-, bromide (8CI)
OTHER NAMES:
CN **2-Methyl-1-phenacylpyridinium bromide**
CN **2-Methyl-N-phenacylpyridinium bromide**
MF **C14 H14 N O . Br**
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CSCHEM
(*File contains numerically searchable property data)
CRN (136714-42-6)



18 REFERENCES IN FILE CA (1967 TO DATE)
18 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 3 OF 5 REGISTRY COPYRIGHT 1999 ACS
RN 16844-10-3 REGISTRY
CN **Pyridinium, 3-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI)**
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Picolinium, 1-phenacyl-, bromide (8CI)
OTHER NAMES:
CN **1-Phenacyl-3-methylpyridinium bromide**

IT Cardiovascular system
(disease, treatment of, carbazoles for)
IT Mental disorder
(senile psychosis, treatment of, carbazoles for)
IT 79-03-8, Propionyl chloride
RL: RCT (Reactant)
(amidation of, with methoxyphenethylamine)
IT 55-81-2, 4-Methoxyphenethylamine
RL: RCT (Reactant)
(amidation of, with propionyl chloride)
IT 577-19-5, o-Nitrobromobenzene
RL: RCT (Reactant)
(condensation of, with aminophenethylamine deriv.)
IT 67191-51-9P 102842-44-4P 149081-92-5P **149081-93-6P**
149081-94-7P 149081-95-8P 149081-96-9P 149081-97-0P
149081-98-1P 149081-99-2P 149082-00-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction of)
IT 149060-88-8P 149082-01-9P 149082-02-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, for treatment of cerebrovascular disorders and senile dementia)

DICTIONARY FILE UPDATES: 31 AUG 99 HIGHEST RN 236127-00-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 13, 1999

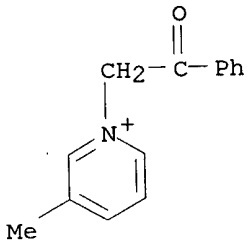
Please note that search-term pricing does apply when conducting SmartSELECT searches.

=> s 16844-10-3/rn

L1 1 16844-10-3/RN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 1999 ACS
RN **16844-10-3** REGISTRY
CN Pyridinium, 3-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Picolinium, 1-phenacyl-, bromide (8CI)
OTHER NAMES:
CN 1-Phenacyl-3-methylpyridinium bromide
CN 1-Phenacyl-3-picolinium bromide
CN 3-Methyl-1-phenacylpyridinium bromide
MF C14 H14 N O . Br
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)
CRN (59036-97-4)



● Br^-

10 REFERENCES IN FILE CA (1967 TO DATE)
10 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> file caplu

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.65	1.80

FILE 'CAPLUS' ENTERED AT 14:55:09 ON 31 AUG 1999

Et, R = Ph) with NH4OH and refluxing Me2CHOH gave Et 2-phenyl-7-indolizinecarboxylate (IV). Acylation of III and IV by Ac2O, BzCl, and 4-ClC6H4COCl yielded the acylindolizines V (R2 = Me, Ph; R3 = Me, Ph, 4-ClC6H4).

IT **54342-81-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and cyclization of)

L14 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 1999 ACS
AN 1970:77111 HCAPLUS
DN 72:77111
TI Further structure-activity relations of heterocyclic analogs of hemicholinium 3
AU Benz, Frederick W.; Long, John Paul
CS Dep. of Pharmacol., Univ. of Iowa, Iowa City, Iowa, USA
SO J. Pharm. Pharmacol. (1970), 22(1), 20-5
CODEN: JPPMAB
DT Journal
LA English
AB The importance of the 3-Me group on the pyridinium ring of bis-quaternary nitrogen salts for hemicholinium-3-like activity having been conditionally established (Benz and Long, 1969), derivs. contg. classical isosteres of the 3-Me group and the 3 oxidn. states of the 3-Me group were examd. Oxidn. of the 3-Me group to CH2OH decreased activity tenfold. Subsequent oxidn. to CHO and CO2H further decreased activity. When the 3-Me group was replaced by a halogen, activity was maintained by the iodo-deriv. but decreased as the size of the halogen decreased and as the electronegativity increased. Substitution of an Et group for the 3-Me decreased activity twofold, whereas replacement with OH eliminated activity.

IT **24620-81-3**
RL: BIOL (Biological study)
(neuromuscular inhibition by)